By examiner's amendment

SINGLE LEVEL BILL OF MATERIAL AVAILABLE TO PROMISE

ABSTRACT OF THE INVENTION

A computer implemented Availability Checking Tool wherein tool users work within a common work environment, from common enterprise data, and considering assets and demands across multiple order management systems and manufacturing facilities within boundaries established by manufacturing specifications, process flows and business policies. Tool users can easily maintain a synergistic relationship between orders from multiple demand sources or ordering systems. A demand configurator receives demand information from each demand source and coordinates product requests in accordance with customer request rules and priorities. A supply configurator receives manufacturing and planning data from a planning source and manipulates the received manufacturing and planning data to create new supply data. A material resource engine provides material supply information from the new supply data, the received demand information following product supply rules and priorities. A solver for optimizes product availability information in response to the material supply information, product supply rules and priorities. ~~Thus, customer business rule level~~

149 words